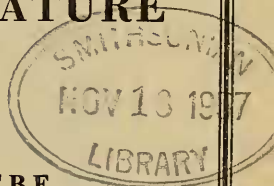


# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission



**VOLUME 1. SECTION E. Part E.11. Pp. 161—192**

## **DIRECTION 72**

Completion and in certain cases correction of entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* by Rulings given in *Opinions* rendered in the period up to the end of 1936

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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## DIRECTION 72

COMPLETION AND IN CERTAIN CASES CORRECTION OF ENTRIES RELATING TO THE NAMES OF GENERA OF THE PHYLA MOLLUSCA, BRACHIOPODA, ECHINODERMATA AND CHORDATA MADE ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" BY RULINGS GIVEN IN "OPINIONS" RENDERED IN THE PERIOD UP TO THE END OF 1936

**RULING :—**(1) In the case of the names of each of the under-mentioned genera belonging to the Class Crinoidea the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73* is hereby completed by the insertion of the particulars as to the manner by which the type species was determined under Article 30 specified below :—

- (a) *Antedon* Fréminville, 1811 : by monotypy ;
- (b) *Bathycrinus* Thompson, 1872 : by monotypy ;
- (c) *Holopus* d'Orbigny, 1837 : by monotypy ;
- (d) *Metacrinus* Carpenter, 1882 : by selection by Clark (A.H.) (1908).

(2) In the case of the names of each of the under-mentioned genera belonging to the Classes severally noted below the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 94* is hereby completed by the insertion of the particulars as

to the manner in which the type species was determined under Article 30 specified below :—

(i) Class Gastropoda

- (a) *Buccinum* Linnaeus, 1758 : by selection by de Montfort (1810) ;
- (b) *Helix* Linnaeus, 1758 : by selection by de Montfort (1810) ;
- (c) *Limax* Linnaeus, 1758 : by selection by Férussac (1819) ;
- (d) *Physa* Draparnaud, [1801] : by selection by Children (J.G.) (1823) ;
- (e) *Succinea* Draparnaud, [1801] : by selection by Gray (J.E.) (1847) ;

(ii) Class Scaphopoda

- (f) *Dentalium* Linnaeus, 1758 : by selection by de Montfort (1810) ;

(iii) Class Pelecypoda

- (g) *Macra* Linnaeus, 1767 : by selection by Gray (J.E.) (1847) ;
- (h) *Mya* Linnaeus, 1758 : by selection by Children (J.G.) (1822) ;
- (i) *Ostrea* Linnaeus, 1758 : by Linnean tautonymy ;
- (j) *Sphaerium* Scopoli, 1777 : by selection by Gray (J.E.) (1847) ;
- (k) *Teredo* Linnaeus, 1758 : by selection by Children (J.G.) (1822) ;

(iv) Class Cephalopoda

- (l) *Argonauta* Linnaeus, 1758 : by selection by Children (J.G.) (1824) ;

(m) *Sepia* Linnaeus, 1758 : by Linnean tautonymy.

(3) It is hereby directed that in the entry on the *Official List of Generic Names in Zoology* relating to the names of each of the under-mentioned genera of the Class Urochorda there be inserted a statement that the type species specified therefor by the Ruling given in *Opinion* 94 was selected as such under Rule (g) in Article 30 by Apstein (K.) in 1915 on page 185 of the paper entitled "Nomina Conservanda" published in Part 5 of the volume for 1915 of the serial publication *SitzBer. Ges. Naturforsch. Freunde zu Berlin*, the entries so to be made in respect of the first and second of the names specified below to be in completion of the entries made by the Ruling given in the *Opinion* referred to above and that in respect of the third of the names in question to be in substitution for the incorrect entry made on the foregoing *Official List* by the Ruling given in the said *Opinion* :—

- (a) *Botryllus* Gaertner, 1774 ;
- (b) *Clavelina* Savigny, 1816 ;
- (c) *Distaplia* Della Valle, 1881.

(4) The following amended entry relating to the determination of the type species of the genus *Oleacina* Röding, 1798 (Class Gastropoda) is hereby substituted for the incorrect entry in regard thereto made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 119 :—"type species, by monotypy, through the application of *Declaration* 21 : *Bulla voluta* Gmelin, [1791]".

(5) The entry relating to the generic name *Vitrina* Draparnaud, [1801] (Class Gastropoda) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 119 is hereby completed by the insertion of the following particulars :—"type species, by monotypy : *Helix pellucida* Müller (O.F.), 1774" .

(6) The incorrect date and reference attributed to the generic name *Rhizocrinus* Sars (M.) (Class Crinoidea) when that name was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73* are hereby deleted from the entry on the above *List* and the following revised particulars are hereby inserted in place of those so deleted :—“ 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39 ”.

(7) The following amended particulars relating to the type species of the genus *Rhizocrinus* Sars (M.), (Class Crinoidea) are hereby inserted in the entry in regard thereto made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73*, as amended by (6) above, in place of the incorrect and incomplete particulars there given :—*Rhizocrinus lofotensis* Sars (M.), 1868 (*Mém. serv. Conn. Crin. viv.* : 1, 39).

(8) The date “ 1767 ” is hereby substituted for the date “ 1766 ” as the date of publication of the name *Helix pulligera* Linnaeus at the point where that name was inserted on the *Official List of Generic Names in Zoology* as the name of the type species of the genus *Neritina* Lamarck, 1816 (Class Gastropoda) in accordance with the Ruling given in *Opinion 119*.

(9) The authorship of, and the date for, the generic name *Leucochilus* (Class Gastropoda) when that name was cited in the Ruling given in *Opinion 115* is hereby corrected by the substitution of the revised entry “ Boettger, [1880] ” for the incorrect entry “ von Martens, 1881 ”.

(10) It is hereby directed that in the entry on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion 115* the following endorsement be added to the entry relating to the generic name *Leucochila* von Martens, 1860 (Class Gastropoda) :—“ for use by specialists who are of the opinion that the taxon so named is distinct from the older established nominal taxon *Pupoides* Pfeiffer, 1854 ”.

(11) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Pupoides* Pfeiffer (L.G.C.), 1854 (gender : masculine)  
(type species, by selection by Gude (1914) :  
*Pupoides nitidulus* Pfeiffer (L.G.C.), 1854) (Class  
Gastropoda) (Name No. 1199) ;
- (b) *Gastrocopta* Wollaston, 1878 (gender : feminine)  
(type species, by selection by Pilsbry (1916) :  
*Pupa acarus* Benson, 1856) (Class Gastropoda)  
(Name No. 1200).

(12) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *nitidulus* Pfeiffer (L.G.C.) 1854, as published in the combination *Pupoides nitidulus* (specific name of type species of *Pupoides* Pfeiffer (L.G.C.), 1854 Name No. 1328) ;
- (b) *acarus* Benson, 1856, as published in the combination *Pupa acarus* (specific name of type species of *Gastrocopta* Wollaston, 1878) (Name No. 1329) ;
- (c) *armifera* Say, 1821, as published in the combination *Pupa armifera* (Name No. 1330).

(13) It is hereby directed that the Ruling given in *Opinion* 115 by which the generic name *Leucochilus* Boettger, [1880] (there inadvertently attributed to von Martens and treated as having been published in 1881) was suppressed under the Plenary Powers is to be interpreted as though it contained an express direction that the above generic name be suppressed for the purposes of the Law of Homonymy as well as for those of the Law of Priority.

(14) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name No. 1201 :—

*Leucochilus* Kraatz, [1897], as validated by the Ruling given in *Opinion* 115, as clarified by (13) above (gender : masculine) (type species, by monotypy : *Leucocelis notaticollis* Kraatz, [1897]) (Class Insecta, Order Coleoptera).

(15) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1331 :—*notaticollis* Kraatz, [1897], as published in the combination *Leucocelis notaticollis* (specific name of type species of *Leucochilus* Kraatz, [1897]).

(16) The under-mentioned generic names or reputed generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (i) *Anodonta* Saunders, 1843 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 960) ;
- (ii) *Anodonta* Herrich-Schaeffer, 1855 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 961) ;
- (iii) *Anodonta* Rambur, 1858 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 962) ;
- (iv) *Bothyllus* Hesse, 1864 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 963) ;
- (v) *Botrillus* Oken, 1829 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 964) ;



- (vi) *Botryllis* Porro, 1841 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 965) ;
- (vii) *Botrylus* Koelliker & Loewig, 1846 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 966) ;
- (viii) *Botryllus* Oken, 1815 (a junior homonym of *Botryllus* Pallas, 1774) (Name No. 967) ;
- (ix) *Dentalius* Forbes, 1841 (an Erroneous Subsequent Spelling for *Dentalium* Linnaeus, 1758) (Name No. 968) ;
- (x) *Diazone* Usov, 1875 (an Erroneous Subsequent Spelling for *Diazona* Savigny, 1816) (Name No. 969) ;
- (xi) *Helix* Férussac, 1821 (a junior homonym of *Helix* Linnaeus, 1758) (Name No. 970) ;
- (xii) *Holothuria* Linnaeus, 1758 (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy) (Name No. 971) ;
- (xiii) *Leucochilus* Boettger, [1880] (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy) (Name No. 972) ;
- (xiv) *Limax* Pallas, 1774 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 973) ;
- (xv) *Limax* Martyn, 1784 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 974) ;
- (xvi) *Limax* Férussac, 1819 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 975) ;

- (xvii) *Mya* Rondani, 1850 (a junior homonym of *Mya* Linnaeus, 1758) (Name No. 976) ;
- (xviii) *Neritina* Rafinesque, 1815 (a *nomen nudum*) (Name No. 977) ;
- (xix) *Physa* Raffray, 1890 (a junior homonym of *Physa* Draparnaud, [1801]) (Name No. 978) ;
- (xx) *Pupa* Lamarck, 1801 (a junior objective synonym of *Cerion* Röding, 1798) (Name No. 979) ;
- (xxi) *Pyrosoma* Dahlbom, 1854 (a junior homonym of *Pyrosoma* Péron, 1804) (Name No. 980) ;
- (xxii) *Pyrosoma* Smith & Kilborne, 1893 (a junior homonym of *Pyrosoma* Péron, 1804) (Name No. 981) ;
- (xxiii) *Rhizocrinus* Sars (M.), 1865 (a *nomen nudum*) (Name No. 982) ;
- (xxiv) *Sphaerium* Charpentier, 1825 (a junior homonym of *Sphaerium* Scopoli, 1777) (Name No. 983) ;
- (xxv) *Spirifera* Murray, 1831 (an Invalid Emendation of *Spirifer* Sowerby (J.), 1816) (Name No. 984) ;
- (xxvi) *Teredo* Hübner, [1809—1813] (a junior homonym of *Teredo* Linnaeus, 1758) (Name No. 985) ;
- (xxvii) *Vitria* Hall, 1867 (an Erroneous Subsequent Spelling for *Vitrina* Draparnaud, [1801]) (Name No. 986) ;
- (xxviii) *Vitrinus* de Montfort, 1810 (an Invalid Emendation of *Vitrina* Draparnaud, [1801]) (Name No. 987).

(17) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid Specific*

*Names in Zoology* with the Name Numbers severally specified below :—

- (i) *volutata* Röding, 1798, as published in the combination *Oleacina volutata* (a junior objective synonym of *voluta* Gmelin, [1791], as published in the combination *Bulla voluta*) (Name No. 419) ;
- (ii) *lofotensis* Sars (M.), 1865, as published in the combination *Rhizocrinus lofotensis* (a *nomen nudum*) (Name No. 420).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* contains decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing, and, where necessary, of correcting, the entries in regard to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, this action being a necessary preliminary to the publication of the *Official List* in book form. The proposals upon which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 28th August 1956 in the following paper :—

**Proposed completion and correction of certain entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the “ Official List of Generic Names in Zoology ” by Rulings given in “ Opinions ” rendered in the period up to the end of 1936**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper contains particulars of certain omissions and errors in the entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made in the

*Official List of Generic Names in Zoology* by Rulings given in *Opinions* rendered in the period up to the end of 1936. The various matters which it is necessary now to bring to the attention of the Commission are set out as briefly as possible in the immediately following paragraphs. The action which it is recommended that the International Commission should now take is summarised in the concluding paragraph (paragraph 20).

2. The elucidation of the problems involved in the present group of names has been greatly assisted by the co-operation and advice afforded by a number of specialists in the groups concerned. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they held at the time when consultations took place, and (b) of the Classes on the names of genera of which assistance has been given, are the following :—

- L. Bairstow (*British Museum (Natural History), London*) (Class Cephalopoda)
- J. Balfour-Browne (*British Museum (Natural History), London*) (on a problem relating to the Order Coleoptera (Class Insecta) found to be involved in connection with the name of a genus belonging to the Class Gastropoda)
- R. S. Bassler (*Smithsonian Institution, U.S. National Museum, Washington, D.C., U.S.A.*) (Class Crinoidea)
- N. J. Berrill (*McGill University, Montreal, Canada*) (Class Urochorda)
- L. R. Cox (*British Museum (Natural History), London*) (Class Gastropoda)
- Karl Jordan (*British Museum (Natural History), Zoological Museum, Tring, Herts.*) (Classes Brachiopoda, Gastropoda, Urochorda)
- Raymond C. Moore (*University of Kansas, Lawrence, Kansas, U.S.A.*) (Class Crinoidea)
- Miss Helen M. Muir-Wood (*British Museum (Natural History), London*) (Class Brachiopoda)
- Hans Schein (*Rechtsk. Stadtdirektor, München, Germany*) (on the same Coleopterological problem as that on which advice was received from J. Balfour-Browne)
- R. Winckworth (*London*).

3. The cases dealt with in the present paper fall into four groups, namely : (a) cases where no information or inadequate or incorrect information as to how the type species of genera had been determined under Article 30 was given in the *Opinions* in which the generic names in question were placed on the *Official List of Generic Names in Zoology* ; (b) cases where wrong dates or wrong references were cited at the

time when generic names were placed on the *Official List* ; (c) the case of the name *Leucochilus* Boettger, [1880], which was suppressed under the Plenary Powers by the Ruling given in *Opinion* 115, in which a number of problems calling for action by the International Commission are involved ; (d) cases where objectively invalid names, either generic or specific, are involved and the addition of those names to the appropriate *Official Index of Rejected and Invalid Names in Zoology* is therefore called for.

**(1) Proposed insertion in the " Official List of Generic Names in Zoology " of particulars as to the method by which the type species of twenty-two genera were determined under Article 30 of the " Règles "**

4. In all there are twenty-three entries on the *Official List* of the names of genera belonging to the Phyla dealt with in the present paper, for which no information or incorrect information as to the method by which the type species of the genera concerned had been determined under Article 30 of the *Règles* was given in the *Opinions* in which the names in question were placed on the *Official List*. The *Opinions* containing these defective entries were : *Opinion* 73 (four entries) ; *Opinion* 94 (seventeen entries) ; *Opinion* 119 (two entries). In one case (*Mytilus*) the necessary information had been given in a more recent *Opinion* (*Opinion* 333). The number of names on which action now requires to be taken is thus twenty-two. In five cases special problems arise which are discussed separately below : *Botryllus*, *Clavelina*, *Distaplia* (paragraph 5) ; *Oleacina* (paragraph 6) ; *Vitrina* (paragraph 7). In the remaining seventeen cases no difficulty arises and all that is required is that gaps left in *Opinions* 73 and 94 should now be filled in. The required particulars are given in Annexe 1 to the present paper.

5. **Three generic names of Urochorda placed on the " Official List " by the Ruling given in " Opinion " 94 :** There are three names of genera of the Class Urochorda which were placed on the *Official List* by the Ruling given in *Opinion* 94 which call for special mention. The names concerned are : *Botryllus* Gaertner, 1774 ; *Clavelina* Savigny, 1816 ; *Distaplia* Della Valle, 1881. The third of these genera was incorrectly stated to be monotypical while for the other two no particulars were given as to how the type species had been determined. Careful search has been made for information on this subject but without success. The number of systematic works on this group is small and the authors who have written on it have for the most part shown little interest in the details of nomenclature. The nominal species specified in *Opinion* 94 as the respective type species of these genera were in each case originally included species and are therefore eligible for selection as type species. Moreover, these species are currently included by specialists in the genera concerned. The proposal for the addition of

these generic names to the *Official List* was submitted to the Commission on the basis of Dr. Karl Apstein's celebrated paper entitled "Nomina conservanda" published in May 1915 (*SitzBer. Ges. Naturforsch. Freunde Berlin* 1915 (5) : 119—202). As used in this paper the expression "nomina conservanda" bore its simple meaning of "names which ought to be preserved" and had not at that time acquired the more specialised meaning of "technically defective names which ought nevertheless to be preserved for use in their accustomed sense" to which it was later commonly restricted, for many scores of the names which Apstein included in his list are perfectly valid and the nominal species which he cited for each genus is the valid type species under the *Règles*. I am of the opinion therefore that the reasonable course to adopt in the case of the three names here under consideration is to accept Apstein as having himself selected the type species for the genera in question in the foregoing paper. The alternative would be to treat the Commission as having made these type selections in its *Opinion* 94. Such a view would, however, be very artificial, for the Commission certainly did not look upon itself as making any type selections for genera in that *Opinion*, making it clear indeed that it was doing no more than giving approval to Apstein's proposal of 1915 that the names there specified should be protected—i.e. recognised as *nomina conservanda* in the non-specialised sense in which Apstein had used that term—through the addition of the names concerned to the *Official List of Generic Names in Zoology*. It is accordingly recommended that the Commission should treat each of the generic names concerned as having had their respective type species selected under Rule (g) in Article 30 in Apstein's paper "Nomina conservanda". In each case the type-selection will be found on page 185 of Apstein's paper.

6. "Oleacina" Röding, 1798 : This name was placed on the *Official List* by the Ruling given in *Opinion* 119 with *Bulla voluta* Gmelin, [1791] (in Linnaeus, *Syst. Nat.* (ed. 13) 1(6) : 3433) as type species. Reference to Röding's original publication of the name *Oleacina* (*Mus. Bolten.* 2 : 210) shows that he recognised only one taxon as belonging to this genus and that he cited this species under the name *Oleacina volutata*. Other things being equal, it would therefore be necessary to cite the type species of this genus under the above name. The name *Oleacina volutata* Röding is, however, no more than a *nom. nov.* for *Bulla voluta* Gmelin, [1791], the name which (with the incorrect date "1790") was (as explained above) cited by the Commission in *Opinion* 119 as the name of the type species of this genus. The name *volutata* Röding, 1798, is thus a junior objective synonym of *voluta* Gmelin, [1791]. It is necessary at this point to note that the Commission has recently given a Ruling in *Declaration* 21 that "where one or two or more objectively identical nominal species is designated, indicated or selected as the type species of a genus, that genus shall be cited as having as its type species the oldest established of the nominal species concerned". Since the type species of the

present genus was "indicated" under Rule (c) in Article 30 and the two nominal species cited above are objectively identical with one another, *Declaration* 21 applies in this case. Accordingly the genus *Oleacina* Röding, 1798, should be cited on the *Official List* as having as its type species *Bulla voluta* Gmelin, [1791] by monotypy, through the application of *Declaration* 21. At the same time the objectively invalid specific name *volutata* Röding, 1798 (*Oleacina*) should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. A recommendation in this sense is submitted in Section B of Annexe 2 to the present paper.

7. "*Vitrina*" Draparnaud, [1801]: This generic name was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 119, its type species being there stated to be *Helix pellucida* Müller (O.F.), 1774. Further, the specific name *pellucida* Müller has since been placed on the *Official List of Specific Names in Zoology* by the Ruling given in *Opinion* 336. The only point which still calls for attention is the method by which under Article 30 the above nominal species became the type species of *Vitrina* Draparnaud. There was no clear statement on this subject in the Ruling given in the above *Opinion*, while in the main body of that document there was a confused discussion which in the light of later clarifications of Article 30 is now seen to have been irrelevant. Shortly, the point made in that discussion may be summarised as follows: (i) Draparnaud in 1801 established the genus *Vitrina* with only one nominal species included species, namely what he called *Vitrina pellucida*, for which he cited *Helix pellucida* Müller in synonymy. (ii) In a later work published in 1805 Draparnaud published a figure of *pellucida* which, in the opinion of the author of this part of *Opinion* 119, represented not the true *pellucida* of Müller but another species which later (in 1807) was named *Helicolimax major* by Férussac. (iii) It was argued therefore that Draparnaud confused—or might have confused—two species under the name "*pellucida*" when he established the genus *Vitrina*. (iv) Montfort in 1810 (*Conch.* 2 : 239) definitely selected *Vitrinus* [emend. of *Vitrina*] *pellucida* as the type species of the genus *Vitrina* Draparnaud, but in the discussion in this *Opinion* his action was rejected on the grounds that he also may have confused the two species. (v) Two other selections of *Vitrina pellucida* as the type species of *Vitrina* Draparnaud, the first by Children (1823, *Quart. J. Sci. Lit. Arts* 15 : 236) and the second by Gray (1847, *Proc. zool. Soc. Lond.* 15 : 170) were rejected in the discussion in *Opinion* 119 on the ground that they did not cite an author's name for *pellucida* and therefore (as it was argued) it was impossible to be sure that they had in mind the true *pellucida* of Müller. (vi) Herrmannsen in 1849 (*Index malac.* 2 : 696) was the first to state that *Vitrina pellucida*, expressly attributed to Müller, was the type species of *Vitrina* Draparnaud. (vii) In the discussion in the above *Opinion* Herrmannsen was accordingly looked upon as having first definitely selected *Helix pellucida* Müller as the type species

of *Vitrina* Draparnaud, to the total exclusion of *Helicolimax major* Férussac. The discussion summarised above illustrates very clearly the difficulties which were bound to arise from time to time, so long as it was considered permissible in a discussion on nomenclature to import extraneous considerations of a taxonomic character. This difficulty was finally disposed of by the Thirteenth International Congress of Zoology when it incorporated into the *Règles* a provision that, save in certain exceptional circumstances which do not apply in the present instance, the author of the name of a nominal genus is to be assumed to have determined correctly the nominal species placed by him in the genus so named (1950, *Bull. zool. Nomencl.* 4 : 158—159). In the light of this decision we see that Draparnaud is to be assumed to have correctly identified the nominal species *Helix pellucida* Müller when he included it in his new genus *Vitrina* in 1801. All the discussion on this subject in *Opinion* 119 is thus seen to have been irrelevant. So also was the portion of that discussion which was concerned with the question of who should be accepted as having selected *Helix pellucida* Müller as the type species of *Vitrina* Draparnaud, for, as actually stated in that discussion, the above species was the sole nominal species included by Draparnaud in his nominal genus *Vitrina* at the time of its establishment in 1801 and was accordingly the type species of that genus by monotypy from the first moment of the publication of the name *Vitrina* Draparnaud. The action now called for in this case is a direction that in the entry on the *Official List* relating to the name of the foregoing genus, the type species (*Helix pellucida* Müller (O.F.), 1774) is to be entered as having been determined by monotypy (Rule (c) in Article 30).

(2) Cases where wrong dates or wrong references were cited when generic names were placed on the  
“ Official List ”

8. In two cases either wrong dates or wrong references were cited when generic names belonging to the group dealt with in the present paper were placed on the *Official List*. The relevant particulars are given in paragraphs 9 and 10 below.

9. “ *Rhizocrinus* ” Sars (M.) : This name was placed on the *Official List* by the Ruling given in *Opinion* 73. The date and reference there given for this name were as follows : “ 1864, 127 (*Forhandl. Vidensk. Selsk*) ”. The type species was cited as “ *R. lofotensis* ”. Two points call for notice in connection with the foregoing entries. First, the date cited is the date of the volume concerned in the sense that it was the volume for the year 1864, but it is not the date of publication of the volume which, as stated on the title page, did not appear until 1865. Second, the generic name *Rhizocrinus* and the binomen *Rhizocrinus lofotensis*, as published in this volume are the barest of *nomida nuda*, occurring only in a two-line note of a meeting held on 14th October 1864. The first valid publication of the generic name *Rhizocrinus* and of the specific name *lofotensis* (*Rhizocrinus*) appears to have been



in a book by Sars published in 1868. The entry on the *Official List* relating to this generic name should be amended to read as follows : *Rhizocrinus* Sars (M.), 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39 (type species, by monotypy : *Rhizocrinus lofotensis* Sars (M.), 1868, *ibid.* : 1, 39). The widely cited (and often wrongly accepted) *nomen nudum* *Rhizocrinus* Sars, 1865, should be placed on the *Official Index of Rejected and Invalid Generic Names* and the *nomen nudum lofotensis* (*Rhizocrinus*) of 1865 should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. Recommendations in this sense are submitted in Sections A and B respectively of Annexe 2 to the present paper. Finally the name *lofotensis* (*Rhizocrinus*) Sars, 1868, should be placed on the *Official List of Specific Names in Zoology*. A recommendation in this sense is included in Paper Z.N.(S.) 1124, which is being submitted to the Commission simultaneously with the present paper<sup>1</sup>.

**10. “*Neritina*” Lamarck, 1816 :** When this name was placed on the *Official List of Generic Names in Zoology*, by the Ruling given in *Opinion* 119, the date “1766” was attributed to its type species, *Nerita pulligera* Linnaeus. This name was published on page 1253 of volume 1 of the Twelfth Edition of the *Systema Naturae*. That volume was published in two Parts, of which Part 1 (containing pages 1—532) appeared in 1766 and Part 2 (containing pages 533—1327) in 1767. The correct date for *Nerita pulligera* Linnaeus is therefore 1767.

### (3) Special problem arising on “*Opinion*” 115 (entitled “*Status of ‘Leucochilus’*”)

**11.** It is necessary now to consider various problems which arise in connection with the Ruling given in *Opinion* 115, which was published under the title “*Status of Leucochilus*”. In order to appreciate the nature of the various problems involved, it is necessary to examine the wording of the Ruling (there styled “*Summary*”) given in the above *Opinion*. This was as follows : “The Commission herewith suppresses *Leucochilus* von Martens, 1881, in favour of *Leucochila* von Martens, 1860, type *Pupa fallax* Say. Any other course would involve risk of lasting and constant confusion in two rather closely allied genera”. When I first examined this *Opinion*, I found myself unable to understand its meaning until I realised that the attribution to von Martens of the name *Leucochilus* was the result of some *lapsus calami* on the part of the draftsman of this *Opinion* and that, as is apparent from the discussion given in the main body of the *Opinion*, the name intended was *Leucochilus* Boettger (O.). The mistake arose no doubt from the fact that this name was published in von Marten’s *Conchologische Mitteilungen*. Boettger’s name *Leucochilus* was

<sup>1</sup> The paper here referred to was submitted to the International Commission with Voting Paper V.P.(O.M.)(56)21. It has since been included in *Direction* 73, in which has been embodied the decision taken by the Commission on the foregoing Voting Paper. That *Direction* is being published in the immediately following Part (Part E.12) of the present Section of Volume 1 of the present Series.

published in 1880 and not in 1881, the date erroneously attributed to it in *Opinion 115*.

12. The second point to be noted is that through some oversight no reference was made in this *Opinion* to the *Official List of Generic Names in Zoology* but that by a decision by the Thirteenth International Congress of Zoology, Paris, 1948, every generic name accepted by the Commission in an *Opinion* as the oldest available name for a given taxon is to be placed on the *Official List*. Naturally, this decision applies with particular force to a case where, as here, the Commission uses its Plenary Powers to protect a particular name. Accordingly, under the foregoing decision the name *Leucochila* von Martens, 1860, is to be treated as having been automatically placed on the *Official List*. It has been allotted the Name Number 543.

13. In this *Opinion* the Commission took the view that the names *Leucochila* von Martens, 1860, and *Leucochilus* Boettger (O.) [1880], were not homonyms of one another, a view which remains as correct today as it was at the time of the adoption of this Ruling, being fully in accord with the single-letter rule adopted by the Copenhagen Congress of 1953 for determining homonymy in generic names. The Commission decided also that the above names were not objective synonyms of one another, as they would have been if it had been held that the later published name was only an Erroneous Subsequent Spelling for *Leucochila*. The Commission, however, accepted the view that these two generic names might be held to be subjective synonyms of one another. While correctly abstaining from expressing an opinion on this point, the Commission were impressed by the confusion which would be likely to arise if these two names differing, from one another only by having in one case a masculine termination (“-us”) and in the other a feminine termination (“-a”) were both to remain available names and decided to ensure against this risk by suppressing the later published of the two names involved (*Leucochilus* Boettger, [1880]), under its Plenary Powers. This latter name requires now to be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*. A recommendation in this sense is submitted in Section A of Annexe 2 to the present paper.

14. The next point to be considered is the present taxonomic status both of the genus *Leucochila* von Martens, 1860, and of the genus which Boettger in 1880 named *Leucochilus*. It appears from the investigations carried out by this Office that *Leucochila* von Martens is considered at least by most authors as a junior subjective synonym of *Pupoides* Pfeiffer, 1854, while the name *Leucochilus* Boettger, [1880], even if it had not been suppressed by the Commission under its Plenary Powers, would today have been rejected as a junior subjective synonym of *Gastrocopta* Wollaston, 1878. If the matter was being looked at today for the first time, it seems unlikely that the Commission would have either suppressed the name *Leucochilus* Boettger, [1880] or have placed *Leucochila* von Martens on the *Official List*, but, as this action was taken, the best course as regards the latter of these names appears to be

to endorse the entry regarding it on the *Official List* to the effect that the name is so entered for use by specialists who consider that the taxon so named is distinct from that represented by the nominal genus *Pupoides* Pfeiffer. This course has the advantage that it avoids the need for the Commission to take a view on a purely taxonomic question (the taxonomic relationship of *Leucochila* and *Pupoides* with one another) which would be inescapable if it were to decide to remove the name *Leucochila* von Martens from the *Official List*. Moreover, action in this sense is in strict accord with the procedure which by a Directive issued by the Paris Congress of 1948 the Commission is required to take when considering the addition to the *Official List* of a name which by some specialists is regarded as a subjective junior synonym of some other name. It is naturally a part of the proposal now submitted that the names *Pupoides* Pfeiffer, 1854, and *Gastrocopta* Wollaston, 1878, should be placed on the *Official List of Generic Names in Zoology*. The bibliographical and other references which will need to be inserted in the *Official List* in regard to these names are given below, the gender proposed to be assigned to each name being that which has been advised to be correct by Professor L. W. Grensted, the Commission's Consulting Classical Adviser :—

- (i) *Pupoides* Pfeiffer (L.G.C.), 1854, *Malak. Bl.* 1 : 192 (gender : masculine) (type species, by selection by Gude, 1914 (*Faun. Brit. Ind.*, Moll. 2 : 259) : *Pupoides nitidulus* Pfeiffer (L.G.C.), 1854, *Malak. Bl.* 1 : 192) ;
- (ii) *Gastrocopta* Wollaston, 1878, *Testacea atlantic.* : 515 (gender : feminine) (type species, by selection by Pilsbry, 1916 (*in* Tryon and Pilsbry, *Man. Conch.* 24 : 7) : *Pupa acarus* Benson, 1856, *Ann. Mag. nat. Hist.* (2) 18 : 435).

15. As a corollary to the foregoing proposals it will be necessary to place on the *Official List of Specific Names in Zoology* the specific names for the type species of the genera *Pupoides* Pfeiffer and *Gastrocopta* Wollaston respectively, as both of these specific names are available names and are moreover the oldest such names for the taxa concerned. The names concerned are *nitidulus* Pfeiffer, 1854, (*Pupoides*) and *acarus* Benson, 1856 (*Pupa*). The references for these names have been given in paragraph 14 above. Finally, it will be necessary similarly to place on the foregoing *Official List* the specific names of the type species respectively of *Leucochila* von Martens, 1860, and of *Leucochilus* Boettger, [1880], since both these names are available names and are the oldest available names for the taxa in question. The nominal species concerned are : (a) *Pupa fallax* Say, 1825 (*J. Acad. nat. Sci. Philad.* 5 : 121), the type species, by original designation, of *Leucochila* von Martens, 1860 ; (b) *Pupa armifera* Say, 1821 (*J. Acad. nat. Sci. Philad.* 2 : 162), the type species, by monotypy, of *Leucochilus* Boettger, [1880]. Of these recommenda-

tions a proposal as regards the first is included in the Paper numbered Z.N.(S.) 1124, which is being submitted simultaneously with the present paper ; that regarding the second is submitted in the present paper.

16. It is necessary next to consider the extent to which the generic name *Leucochilus* Boettger, [1880], is to be treated as having been suppressed under the Plenary Powers. Is it to be treated as having been suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy ? Or is it to be treated as having been suppressed for the purposes both of the Law of Priority and of the Law of Homonymy ? In view of the fact that the object of suppressing this name was to prevent it from being used in competition with the name *Leucochila* von Martens, the normal procedure would be to regard it as having been suppressed for the purposes of the Law of Priority only, that is, for it to be kept alive for the purposes of the Law of Homonymy ; for the suppression of names for the purposes of the Law of Homonymy as well as for those of the Law of Priority is confined to cases where it is desired not only to get rid of a name as published at a given date but also to use it again as from some later date. These considerations are of importance in the present case because it appears that there is a later generic name consisting of the word *Leucochilus* which was published in 1897 and which is currently in use in the Class Insecta (Order Coleoptera), notwithstanding the fact that, owing to the lack of precision in the Ruling given in *Opinion* 115 it is not clear whether the name concerned is available for use in the Class Insecta or whether the name so used should be rejected as being a junior homonym of *Leucochilus* Boettger, [1880]. In these circumstances it is evident that the logical—as well as the only sensible—course is to treat the generic name *Leucochilus* Boettger, [1880], as having been suppressed by the Commission by the Ruling given in *Opinion* 119 not only for the purposes of the Law of Priority but also for those of the Law of Homonymy, for this avoids the need for rejecting the name *Leucochilus* Kraatz, [1897], as being a junior homonym of *Leucochilus* Boettger, [1880].

17. The nominal genus *Leucochilus* Kraatz, [1897] (*Deuts. ent. Z.* 1896 : 375) was established for an obscure taxon belonging to the family CETONIDAE (Class Insecta, Order Coleoptera) found in Somaliland. The type species of this genus by monotypy is *Leucocelis notaticollis* Kraatz, [1897] (*ibid.* 1896 : 71, footnote). The generic name *Leucochilus* Kraatz is listed in the *Col. Cat.* (21(72) : 323) as the name of a taxonomically valid genus and is currently in use. It is recommended (a) that the name *Leucochilus* Kraatz, [1897] (type species as noted above) (gender : masculine), which, if the recommendation submitted in paragraph 16 above is approved, will not be a junior homonym of *Leucochilus* Boettger, [1880], be now placed on the *Official List of Generic Names in Zoology*, and (b) that *notaticollis* Kraatz, [1897] (*Leucocelis*), the specific name of its type species, be placed on the *Official List of Specific Names in Zoology*.

**(4) Proposed addition of certain objectively invalid names to the " Official Indexes of Rejected and Invalid Names in Zoology "**

18. As in the case of reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the review of the present group of names has brought to light a number of objectively invalid generic names and a few objectively invalid specific names, all of which should now be placed on the appropriate *Official Index of Rejected and Invalid Names in Zoology*. Full particulars are given in Annexe 2, the generic names being listed in Section A, the specific names in Section B.

**(5) Family-group-name problems**

19. A number of the genera, the names of which are dealt with in the present instalment of the review of names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, are the type genera of family-group taxa. Considerable progress has been made in collecting the information required for the preparation of proposals for the addition of the family-group names concerned to the *Official List of Family-Group Names in Zoology*. As in the case of previous instalments of this review it is proposed to defer the submission to the Commission of proposals on this subject until after the completion of the examination of the problems arising directly at the generic-name level.

**(6) Recommendations**

20. In the light of the particulars given in the preceding paragraphs regarding the action needed to complete and, where necessary, to correct the entries relating to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* by Rulings given by the Commission in the period up to the end of 1936, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* rendered in the foregoing period issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names enumerated in Annexe 1 to the present paper the particulars there specified as to the manner in which the type species of the genus concerned was determined under Article 30 of the *Règles* (paragraph 4) ;

- (2) insert on the foregoing *Official List* in respect of the generic names *Botryllus* Gaertner, 1774, *Clavelina* Savigny, 1816, and *Distaplia* Della Valle, 1881, an entry that the type species severally specified therefor by the Ruling given in *Opinion* 94 were selected as such under Rule (g) in Article 30 by Apstein (K.) in 1915 on page 185 of a paper entitled “*Nomina conservanda*” in Part 5 of the volume for 1915 of the serial publication *SitzBer. Ges. Naturforsch. Freunde zu Berlin*, the entries so made in respect of the first and second of the above names to be in completion of the entries made by the Ruling given in the foregoing *Opinion* and that in respect of the third of the above names to be in substitution for the incorrect entry made by the Ruling given in that *Opinion* (paragraph 5) ;
- (3) substitute the following amended entry on the *Official List* relating to the determination of the type species of the nominal genus *Oleacina* Röding, 1798, for the entry in regard thereto made under the Ruling given in *Opinion* 119 : “type species, by monotypy, through the application of *Declaration* 21 : *Bulla voluta* Gmelin, [1791]” (paragraph 6) ;
- (4) insert in the entry on the *Official List* relating to the generic name *Vitrina* Draparnaud, [1801], an entry that the type species of the genus so named is *Helix pellucida* Müller (O.F.), 1774, by monotypy (paragraph 7) ;
- (5) delete the incorrect date and reference attributed to the generic name *Rhizocrinus* Sars (M.) by the Ruling given in *Opinion* 73 and substitute therefor the following date and reference : 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39 (paragraph 9) ;
- (6) substitute for the entry on the *Official List* relating to the type species of the genus *Rhizocrinus* Sars (M.), 1868, the following amended entry : *Rhizocrinus lofotensis* Sars (M.), 1868, *Mém. serv. Conn. Crin. viv.* : 1, 39 (paragraph 9) ;
- (7) substitute the date “1767” for the date “1766” as the date of publication of *Helix pulligera* Linnaeus, the name of the type species of *Neritina* Lamarck, 1816 (paragraph 10) ;
- (8) correct the authorship and date attributed to the generic name *Leucochilus* by the Ruling given in *Opinion* 115 by substituting “Boettger, [1880]” for “von Martens, 1881” (paragraph 11) ;
- (9) add to the entry on the *Official List* relating to the generic name *Leucochila* von Martens, 1860, the following endorsement, namely : “for use by specialists who are of the opinion that the taxon so named is distinct from *Pupoides* Pfeiffer, 1854” (paragraph 14) ;

- (10) place the under-mentioned generic names on the *Official List of Generic Names in Zoology* :—
- (a) *Pupoides* Pfeiffer (L.G.C.), 1854 (gender : masculine) (type species, by selection by Gude (1914) : *Pupoides nitidulus* Pfeiffer (L.G.C.), 1854) ;
  - (b) *Gastrocopta* Wollaston, 1878 (gender : feminine) (type species, by selection by Pilsbry (1916) : *Pupa acarus* Benson, 1856) (paragraph 14) ;
- (11) place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—
- (a) *nitidulus* Pfeiffer (L.G.C.), 1854, as published in the combination *Pupoides nitidulus* (specific name of type species of *Pupoides* Pfeiffer, 1854) ;
  - (b) *acarus* Benson, 1856, as published in the combination *Pupa acarus* (specific name of type species of *Gastrocopta* Wollaston, 1878) (paragraph 15) ;
  - (c) *armifera* Say, 1821, as published in the combination *Pupa armifera* (paragraph 15) ;
- (12) direct that the suppression under the Plenary Powers by the Ruling given in *Opinion* 115 of the generic name *Leucochilus* Boettger, [1880] (there inadvertently attributed to von Martens and treated as having been published in 1881) is to be interpreted as suppression for the purposes of the Law of Homonymy as well as for those of the Law of Priority (paragraph 16) ;
- (13) place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Leucochilus* Kraatz, [1897] (gender : masculine) (type species, by monotypy : *Leucocelis notaticollis* Kraatz, [1897]) (Class Insecta, Order Coleoptera) (paragraph 17) ;
- (14) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *notaticollis* Kraatz, [1897], as published in the combination *Leucocelis notaticollis* (specific name of type species of *Leucochilus* Kraatz, [1897]) (Class Insecta, Order Coleoptera) (paragraph 17) ;
- (15) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Section A of Annexe 2 to the present paper (paragraph 18) ;

- (16) place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the objectively invalid specific names enumerated in Section B of Annexe 2 to the present paper (paragraph 18).

## ANNEXE 1

Proposals as to the entries to be inserted in the "Official List of Generic Names in Zoology" regarding the method by which were determined the type species of certain genera, the names of which were placed on that "List" in the period up to the end of 1936

Name of genus	"Opinion" in which name specified in Col. (1) was placed on the "Official List"	Entry relating to the determination of the type species of the genus specified in Col. 1
(1)	(2)	(3)
<i>Antedon</i> Fréminville, 1811	73	by monotypy
<i>Bathyrinus</i> Thompson, 1872	„	by monotypy
<i>Holopus</i> d'Orbigny, 1837	„	by monotypy
<i>Metacrinus</i> Carpenter, 1882	„	by subsequent selection by Clark (A.H.), 1908, <i>Proc. U.S. nat. Mus.</i> 34 : 527
<i>Argonauta</i> Linnaeus, 1758	94	by subsequent selection by Children (J.G.), 1824, <i>Quart. J. Sci. Lit. Arts</i> 16 : 252
<i>Buccinum</i> Linnaeus, 1758	„	by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 463
<i>Dentalium</i> Linnaeus, 1758	„	by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 23



Name of genus	"Opinion" in which name specified in Col. (1) was placed on the "Official List"	Entry relating to the determination of the type species of the genus specified in Col. 1
(1)	(2)	(3)
<i>Helix</i> Linnaeus, 1758	94	by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 231
<i>Limax</i> Linnaeus, 1758	,,	by subsequent selection by Férussac, 1819, <i>Hist. nat. Moll. terrestr. fluviat</i> 2(1) : 67
<i>Mactra</i> Linnaeus, 1767	,,	by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 184
<i>Mya</i> Linnaeus, 1758	,,	by subsequent selection by Children (J.G.), 1822, <i>Quart. J. Sci. Lit. Arts</i> 14 : 85
<i>Ostrea</i> Linnaeus, 1758	,,	by Linnean tautonymy
<i>Physa</i> Draparnaud, [1801]	,,	by subsequent selection by Children (J.G.), 1823, <i>Quart. J. Sci. Lit. Arts</i> 15 : 243
<i>Sepia</i> Linnaeus, 1758	,,	by Linnean tautonymy
<i>Sphaerium</i> Scopoli, 1777	,,	by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 184
<i>Succinea</i> Draparnaud, [1801]	,,	by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 171
<i>Teredo</i> Linnaeus, 1758	,,	by subsequent selection by Children (J.G.), 1822, <i>Quart. J. Sci. Lit. Arts</i> 14 : 82

## ANNEXE 2

**Section A :—Proposed addition of twenty-eight generic names to the  
“ Official Index of Rejected and Invalid Generic Names  
in Zoology ”**

1. The under-mentioned junior homonyms of *Anodonta* Lamarck, 1799, placed on the *Official List* in *Opinion 94* :—
  - (a) *Anodonta* (Hope MS) Saunders, 1843, *Ann. Mag. Nat. Hist.* **11** : 66
  - (b) *Anodonta* Herrich-Schaeffer, 1855, *Aussereur. Schmett.* **1** : 78
  - (c) *Anodonta* Rambur, 1858, *Cat. Syst. Lep. Andalusie* : pl. 4
  
2. The under-mentioned Erroneous Subsequent Spellings for *Botryllus* Pallas, 1774, placed on the *Official List* in *Opinion 94* :—
  - (a) *Bothyllus* Hesse, 1864, *Ann. Sci. nat.*, Paris (Zool.) (5) **1** : 347
  - (b) *Botrillus* Oken, 1829, *Isis* (Oken) **1829** : 1114
  - (c) *Botryllis* Porro, 1841, *Note Bibl. Malac.* (3) : 99
  - (d) *Botrylus* Koelliker & Loewig, 1846, *Ann. Sci. nat.* (Zool.) [3] **5** : 236
  
3. *Botryllus* Oken, 1815, *Lehrb. Naturg.* **3**(1) : 82 (a junior homonym of *Botryllus* Pallas, 1774)
  
4. *Dentalius* Forbes, 1841, *Hist. Brit. Starfish* : 252 (an Erroneous Subsequent Spelling for *Dentalium* Linnaeus, 1758, placed on the *Official List* in *Opinion 94*).
  
5. *Diazone* Usov, 1875, *Arch. Naturg.* **41**(1) : 3 (an Erroneous Subsequent Spelling for *Diazona* Savigny, 1816, placed on the *Official List* in *Opinion 94*).
  
6. *Helix* Férussac, 1821, *Hist. nat. gén. partic. Moll. terrestr. fluviat.*, Tabl. Limaçons : 23 (a junior homonym of *Helix* Linnaeus, 1758, placed on the *Official List* in *Opinion 94*).
  
7. *Holothuria* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 657 (suppressed under the Plenary Powers for the purposes of both of the Law of Priority and of the Law of Homonymy in *Opinion 80*).
  
8. *Leucochilus* Boettger, [1880], in Martens, *Conch. Mitt.* **1** : 64 (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy in *Opinion 115*).

9. The under-mentioned junior homonyms of *Limax* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94 :—

- (a) *Limax* Pallas, 1774, *Spec. zool.* (10) : 19 ;
- (b) *Limax* Martyn, 1784, *Univ. Conch.* : 1
- (c) *Limax* Férussac, 1819, *Hist. nat. gén. partic. Moll. terrestr. fluviat.* 2(1) : 50.

10. *Mya* Rondani, 1850, *N. Ann. Sci. nat. Bologna* (3) 2 : 175 (a junior homonym of *Mya* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94).

11. *Neritina* Rafinesque, 1815, *Analyse Nat.* : 144 (a *nomen nudum*).

12. *Physa* Raffray, 1890, *Rev. Ent. franc.* 9 : 118 (a junior homonym of *Physa* Draparnaud, [1801], placed on the *Official List* in *Opinion* 94).

13. *Pupa* Lamarck, 1801, *Syst. Anim. sans Vertèbr.* : 88 (a junior objective synonym of *Cerion* Röding, 1798, placed on the *Official List* in *Opinion* 119).

14. The under-mentioned junior homonyms of *Pyrosoma* Péron, 1804, placed on the *Official List* in *Opinion* 77 :—

- (a) *Pyrosoma* Dahlbom, 1854, *Hym. Eur.* 2 : 96 (a *nomen nudum*) ;
- (b) *Pyrosoma* Smith & Kilborne, 1893, *Bull. U.S. Dep. Agric. Anim. Ind.* (No. 1) : 67.

15. *Rhizocrinus* Sars (M.), 1865, *Forh. Vidensk.-Selsk, Christiania* 1864 : 127 (a *nomen nudum*).

16. *Sphaerium* Charpentier, 1825, *Horae Ent.* : 78 (a junior homonym of *Sphaerium* Scopoli, 1777, placed on the *Official List* in *Opinion* 94).

17. *Spirifera* Murray, 1831, *Edinb. n. Phil. Journ.* 11 : 148 (an Invalid Emendation of *Spirifer* Sowerby, 1816, placed on the *Official List* in *Opinion* 100).

18. *Teredo* Hübner, [1809—1813], *Erste Zutr.* : 6 ; *Zutr. Samml. exot. Schmett.* : 1, pl. [25] (a junior homonym of *Teredo* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94) ;

19. *Vitria* Hall, 1867, *Ann. Rep. Regents Univ. State Mus. N. York* 20 : 42 (an Erroneous Subsequent Spelling for *Vitrina* Draparnaud, [1801], placed on the *Official List* in *Opinion* 119).

20. *Vitrinus* de Montfort, 1810, *Conch.* 2 : 238 (an Invalid Emendation of *Vitrina* Draparnaud, [1801]).

**Section B :—Proposed addition of two specific names to the “ Official Index of Rejected and Invalid Specific names in Zoology ”**

1. *volutata* Röding, 1798, *Mus. Bolten.* (2) : 110, as published in the combination *Oleacina volutata* (a junior synonym of *voluta* Gmelin, [1791], as published in the combination *Bulla voluta*).

2. *lofotensis* Sars (M.), 1865, *Forh. Vidensk.-Selsk. Christiania 1864* : 127, as published in the combination *Rhizocrinus lofotensis* (a *nomen nudum*).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of completing and correcting in the manner proposed the entries relating to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1123.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)20 :** On 28th August 1956 a Voting Paper (V.P.(O.M.)(56)20) was issued in which each Member of the Commission was asked (1) to state whether he agreed “ that, in accordance with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 20 of the paper numbered Z.N.(S.) 1123, regarding the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and

Chordata, submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended”, and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 28th September 1946.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)20 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)20 was as follows :—

(a) *Affirmative Votes had been given by the following twenty (20) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Vokes ; Lemche ; Prantl ; Esaki ; Bradley (J.C.) ; do Amaral ; Sylvester-Bradley ; Boschma ; Key ; Cabrera ; Hankó ; Hemming ; Dymond ; Stoll ; Kühnelt ; Jaczewski ; Mertens ; Bonnet ; Mayr ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, four (4) :*

Riley ; Bodenheimer ; Tortonese ; Hering ;

(d) *Voting Papers not returned, one (1) :*

Miller.

**6. Declaration of Result of Vote :** On 29th September 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)20, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 12th April 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)20.

**8. Note on the gender attributed to the generic name " Leucochilus " Kraatz, [1897], by the Ruling given in the present " Direction " :** On 12th April 1957 Mr. Hemming, as Secretary, executed the following Minute setting out for purposes of record certain earlier decisions in the light of which the gender attributable to the generic name *Leucochilus* Kraatz had been determined by the Ruling given by the Commission in the present case :—

**On the attribution of the masculine gender to the generic name " Leucochilus " Kraatz, [1897] (Class Insecta, Order Coleoptera)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The following note on the attribution of the masculine gender to the generic name *Leucochilus* Kraatz, [1897] (Class Insecta, Order Coleoptera) has been prepared for purposes of record and for the avoidance of any possible misunderstanding at a later date.

2. The word *Leucochilus*, which is of Greek origin, is an adjectival form treated as a noun when the word was employed as a generic name. In form and general character this word differs in no respect from the word *Oxychilus* which, as used as a generic name by Fitzinger

(1833), has been ruled by the International Commission in *Opinion 431*, Ruling (2) (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 14 : 349) to be of the masculine gender. It was for this reason that in the present case the International Commission on Zoological Nomenclature was recommended to attribute the foregoing gender to the generic name *Leucochilus* Kraatz and that by its vote on Voting Paper V.P.(O.M.)(56) 20 the International Commission has now so determined the gender of that generic name.

3. It should be noted, however, that the provisional rules relating to the determination of the gender of generic names adopted by the Fourteenth International Congress of Zoology, Copenhagen, 1953 (1953, *Copenhagen Decisions on Zoological Nomenclature* : 49—51, Decision 84) are not in all respects self-consistent and that by the immediately following Decision (Decision 85) the International Commission was instructed by the above Congress to review the foregoing rules before they were finally incorporated into the *Règles*. One of the respects in which the component portions of the above rules were not in harmony with one another was in respect of generic names consisting of Latinised versions of Greek adjectival forms when having the termination “-chilus”. Accordingly, a note was made on the relevant Commission File (Z.N.(S.) 996) at the time of the adoption of *Opinion 431* (in which, as explained in paragraph 1 above), the Commission gave its determination of the gender to be attributed to the generic name *Oxychilus* that the ambiguity in Copenhagen Decision 84 in relation to the gender attributable to generic names of the *Oxychilus* type is one of those which will require to be dealt with when the review of the provisions of Copenhagen Decision 84 is carried out in accordance with the directions given to the Commission by Decision 85 of the same Congress.

**9. Original References :** The original references for the generic names placed on the *Official List of Generic Names in Zoology* in the period up to the close of 1936 cited in the Ruling given in the present *Direction* are as noted at the time when those names were entered on the foregoing *List*, subject in each case to the clarification, expansion or correction specified in the said Ruling. The original references for the generic and specific names placed, by the Ruling given in the present *Direction*, on the *Official Indexes of Rejected and Invalid Names in Zoology* are as set out respectively in Section A and Section B of the paper reproduced in the first paragraph of the present *Direction*. The original references for generic and specific names placed on the *Official Lists* of names for taxa belonging to those categories by the

Ruling given in the present *Direction* are as set out in paragraphs 14 and 15 of the above-mentioned paper.

10. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

11. The present *Direction* shall be known as *Direction Seventy-Two (72)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**